AUTHOR INDEX

Abramowicz, D.A., see Hunziker, D. (890) 6
Agalidis, I., Nuijs, A.M. and Reiss-Husson, F.
Characterization of an LM unit purified by affinity chromatography from *Rhodobacter sphaeroides* reaction centers and interactions with the H subunit (890) 242
Amesz, J., see Van Dorssen, R.J. (890) 134

Baltscheffsky, H., see Lundin, M. (890) 279
Baribeau, J. and Boucher, F.
Is the purple color of bacteriorhodopsin maintained by lipid–protein interactions? (890) 275
Beijer, C. and Rutherford, A.W.
The iron-quinone acceptor complex in *Rhodospirillum rubrum* chromatophores studied by EPR (890) 169
Bisaccia, F., see Indiveri, C. (890) 310
Bohnensack, R., see Gellerich, F.N. (890) 117
Boucher, F., see Baribeau, J. (890) 275
Boussac, A., see Miyao, M. (890) 151
Boyer, P.D., see Kandpal, R.P. (890) 97
Britt, R.D., see Cole, J. (890) 395
Bürgi, R., Suter, F. and Zuber, H.
Arrangement of the light-harvesting chlorophyll *a/b* protein complex in the thylakoid membrane (890) 346

Cheniae, G., see Tamura, N. (890) 179
Cole, J., Yachandra, V.K., Guiles, R.D., McDermott, A.E., Britt, R.D., Dexheimer, S.L., Sauer, K. and Klein, M.P.
Assignment of the $g = 4.1$ epr signal to manganese in the S_2 state of the photosynthetic oxygen-evolving complex: an X-ray absorption edge spectroscopy study (890) 395
Cortez, N., see Lucero, H.A. (890) 77
Cotton, N.P.J., see Myatt, J.F. (890) 251
Cox, G.B., Hatch, L., Webb, D., Fimmel, A.L., Lin, Z.-H., Senior, A.E. and Gibson, F.
Amino acid substitutions in the ε-subunit of the F_1F_0-ATPase of *Escherichia coli* (890) 195
Csatorday, K., Kumar, S. and Warden, J.T.
Phenylglyoxal modification of the Photosystem II reaction center (890) 224
Csatorday, K., see Warden, J.T. (890) 215

Daldal, F., see Davidson, E. (890) 292
Damoder, R., see Hunziker, D. (890) 6
Da Silva, L.P., see Lundin, M. (890) 279
Davidson, E., Prince, R.C., Daldal, F., Hauska, G. and Marrs, B.L.
Rhodobacter capsulatus MT113: a single mutation results in the absence of *c*-type cytochromes and in the absence of the cytochrome bc_1 complex (890) 292

Dekker, J.P., see Van Dorssen, R.J. (890) 134
Den Ouden, A., see Van Dorssen, R.J. (890) 134
Dexheimer, S.L., see Cole, J. (890) 395
Dismukes, G.C., see Hunziker, D. (890) 6
Dostatni, R., see Oettmeier, W. (890) 260
Draijer, J.W., see Sinjorgo, K.M.C. (890) 144
Drews, G., see García, A.F. (890) 335
Durak, I., see Sinjorgo, K.M.C. (890) 144

Eckert, H.-J., see Völker, M. (890) 66
Edman, K.A., see Petit, P.X. (890) 377
Eichenberger, D., see Marcillat, O. (890) 233
Ericson, I., see Petit, P.X. (890) 377
Etienne, A.-L., see Miyao, M. (890) 151

Fernández-Velasco, J.G., see García, A.F. (890) 335
Fimmel, A.L., see Cox, G.B. (890) 195

Gad'on, N., see García, A.F. (890) 335
García, A.F., Venturoli, G., Gad'on, N., Fernández-Velasco, J.G., Melandri, B.A. and Drews, G.
The adaptation of the electron transfer chain of *Rhodopseudomonas capsulata* to different light intensities (890) 335
Gardeström, P., see Petit, P.X. (890) 377
Gellerich, F.N., Schlame, M., Bohnensack, R. and Kunz, W.
Dynamic compartmentation of adenine nucleotides in the mitochondrial intermembrane space of rat-heart mitochondria (890) 117
Gibson, F., see Cox, G.B. (890) 195
Godinot, C., see Moradi-Améli, M. (890) 55
Goldschmidt, D., see Marcillat, O. (890) 233
Goodman, G. and Leigh, Jr., J.S.
The distance between cytochromes *a* and a_3 in the azide compound of bovine-heart cytochrome oxidase (980) 360
Gräber, P., see Schmidt, G. (890) 392
Guiles, R.D., see Cole, J. (890) 395
Gwak, S.H., Yang, F.D., Yu, L. and Yu, C.A.
Phospholipid-dependent interaction between dibromothymoquinone and iron-sulfur protein in mitochondrial ubiquinol-cytochrome *c* reductase (890) 319

Hakvoort, T.B.M., see Sinjorgo, K.M.C. (890) 144
Hangarter, R.P., Jones, R.W., Ort, D.R. and Whitmarsh, J.
Stoichiometries and energetics of proton translocation coupled to electron transport in chloroplasts (890) 106
Hatch, L., see Cox, G.B. (890) 195
Hauska, G., see Davidson, E. (890) 292
Hayashi, M. and Unemoto, T.
Subunit component and their roles in the sodium-transport

NADH : quinone reductase of a marine bacterium, *Vibrio alginolyticus* (890) 47
Horak, A., Horak, H. and Packer, M.
Restoration of ATP synthesis in urea-treated membranes prepared from pea cotyledon mitochondria (890) 302
Horak, H., see Horak, A. (890) 302
Hsu, B.-D., Lee, J.-Y. and Pan, R.-L.
The high-affinity binding site for manganese on the oxidizing side of Photosystem II (890) 89
Hunziker, D., Abramowicz, D.A., Damoder, R. and Dismukes, G.C.
Evidence for an association between a 33 kDa extrinsic membrane protein, manganese and photosynthetic oxygen evolution. I. Correlation with the S_2 multiline EPR signal (890) 6

Iba, K., see Takamiya, K.-i. (890) 127
Indiveri, C., Palmieri, F., Bisaccia, F. and Krämer, R.
Kinetics of the reconstituted 2-oxoglutarate carrier from bovine heart mitochondria (890) 310

Jackson, J.B., see Myatt, J.F. (890) 251
Jones, R.W., see Hangarter, R.P. (890) 106
Junge, W. and McLaughlin, S.
The role of fixed and mobile buffers in the kinetics of proton movement (890) 1

Kandpal, R.P. and Boyer, P.D.
Escherichia coli F_1 ATPase is reversibly inhibited by intra- and intersubunit crosslinking: an approach to assess rotational catalysis (890) 97
Kawashima, Y., see Nishida, T. (890) 82
Klein, M.P., see Cole, J. (890) 395
Koseki, M., see Nishida, T. (890) 82
Krämer, R., see Indiveri, C. (890) 310
Kumar, S., see Csatorday, K. (890) 224
Kunz, W., see Gellerich, F.N. (890) 117

Lavorel, J., see Miyao, M. (890) 151
Lee, J.-Y., see Hsu, B.-D. (890) 89
Leigh, Jr., J.S., see Goodman, G. (980) 360
Lin, Z.-H., see Cox, G.B. (890) 195
Lucero, H.A., Cortez, N. and Vallejos, R.H.
Light modulation of serine and threonine phosphorylation in histone III by thylakoids (890) 77
Lundin, M., Da Silva, L.P. and Baltscheffsky, H.
Energy-dependent formation of free ATP in yeast submitochondrial particles, and its stimulation by oligomycin (890) 279
Lutz, M., see Zhou, Q. (890) 368

McDermott, A.E., see Cole, J. (890) 395
McLaughlin, S., see Junge, W. (890) 1
Maison-Peteri, B., see Miyao, M. (890) 151
Marcillat, O., Goldschmidt, D., Eichenberger, D. and Vial, C.
Only one of the two interconvertible forms of mitochondrial creatine kinase binds to heart mitoplasts (890) 233
Marrs, B.L., see Davidson, E. (890) 292
Masson, K., see Oettmeier, W. (890) 260
Melandri, B.A., see García, A.F. (890) 335
Meyer, B., see Schlodder, E. (890) 23
Miyao, M., Murata, N., Lavorel, J., Maison-Peteri, B., Boussac, A. and Etienne, A.-L.
Effect of the 33-kDa protein on the S-state transitions in photosynthetic oxygen evolution (890) 151
Miyao, M., see Styring, S. (890) 32
Moll, B.A.
Flash-induced fluorescence estimation of Photosystem II electron-transport rates in light-adapted leaves (890) 205
Moradi-Améli, M. and Godinot, C.
Availability to monoclonal antibodies of antigenic sites of the α and β subunits in active, denatured or membrane-bound mitochondrial F_1-ATPase (890) 55
Muijsers, A.O., see Sinjorgo, K.M.C. (890) 144
Murata, N., see Miyao, M. (890) 151
Myatt, J.F., Cotton, N.P.J. and Jackson, J.B.
Proton-motive activity of the cytochrome b/c_1 complex in chromatophores of *Rhodobacter capsulatus* in the presence of myxothiazol and antimycin A (890) 251

Nakao, K., see Nishida, T. (890) 82
Nishida, T., Shibata, H., Koseki, M., Nakao, K., Kawashima, Y., Yoshida, Y. and Tagawa, K.
Peroxidative injury of the mitochondrial respiratory chain during reperfusion of hypothermic rat liver (890) 82
Nugent, J.H.A.
Radiation inactivation studies on Photosystem I. Functional sizes of electron-transport reactions (890) 160
Nuijs, A.M., see Agalidis, I. (890) 242

Oettmeier, W., Masson, K. and Dostatni, R.
Halogenated 1,4-benzoquinones as irreversibly binding inhibitors of photosynthetic electron transport (890) 260
Okamura, K., see Takamiya, K.-i. (890) 127
Ort, D.R., see Hangarter, R.P. (890) 106

Packer, M., see Horak, A. (890) 302
Palmieri, F., see Indiveri, C. (890) 310
Palmieri, F., see Tommasino, M. (890) 39
Pan, R.-L., see Hsu, B.-D. (890) 89
Petit, P.X., Edman, K.A., Gardeström, P. and Ericson, I.
Some properties of mitochondria, mitoplasts and submitochondrial particles of different polarities from plant tissues (890) 377
Pistorius, E.K. and Schmid, G.H.
Effect of chloride ions on the S-state distribution and deactivation kinetics in preparations of the cyanobacterium *Anacystis nidulans* (890) 352
Plijter, J.J., see Van Dorssen, R.J. (890) 134
Post, J.K.P., see Sinjorgo, K.M.C. (890) 144
Prezioso, G., see Tommasino, M. (890) 39
Prince, R.C. and Youvan, D.C.
Isolation and spectroscopic properties of photochemical reaction centers from *Rhodobacter capsulatus* (890) 286
Prince, R.C., see Davidson, E. (890) 292

Reiss-Husson, F., see Agalidis, I. (890) 242
Renger, G., see Völker, M. (890) 66
Robert, B., see Zhou, Q. (890) 368
Rutherford, A.W., see Beijer, C. (890) 169
Rutherford, A.W., see Styring, S. (890) 32

Sauer, K., see Cole, J. (890) 395
Schlame, M., see Gellerich, F.N. (890) 117
Schlodder, E. and Meyer, B.
pH dependence of oxygen evolution and reduction kinetics of photooxidized chlorophyll a_{II} (P-680) in Photosystem II particles from *Synechococcus* sp. (890) 23
Schmid, G.H., see Pistorius, E.K. (890) 352
Schmidt, G. and Gräber, P.
The rate of ATP synthesis catalyzed by reconstituted CF_0F_1-liposomes: dependence on ΔpH and $\Delta\psi$ (890) 392
Schmidt, W. and Senger, H.
Long-term delayed luminescence in *Scenedesmus obliquus* I. Spectral and kinetic properties (890) 15
Schumann, J.
Characterization of nucleotide binding sites on the membrane-bound chloroplast ATP synthase (coupling factor CF_1) (890) 326
Senger, H., see Schmidt, W. (890) 15
Senior, A.E., see Cox, G.B. (890) 195
Shibata, H., see Nishida, T. (890) 82
Shinohara, Y. and Terada, H.
Possible involvement of the 29 kDa protein in H^+-ATPase in the action of cationic uncoupler of oxidative phosphorylation. Effect of the (o-phenanthroline)$_2$-Cu^{2+} complex as a cationic uncoupler (890) 387
Sinjorgo, K.M.C., Hakvoort, T.B.M., Durak, I., Draijer, J.W., Post, J.K.P. and Muijsers, A.O.
Human cytochrome c oxidase isoenzymes from heart and skeletal muscle; purification and properties (890) 144
Styring, S., Miyao, M. and Rutherford, A.W.
Formation and flash-dependent oscillation of the S_2-state multiline EPR signal in an oxygen-evolving Photosystem-II preparation lacking the three extrinsic proteins in the oxygen-evolving system (890) 32
Suter, F., see Bürgi, R. (890) 346

Tagawa, K., see Nishida, T. (890) 82
Takamiya, K.-i., Iba, K. and Okamura, K.
Reaction center complex from an aerobic photosynthetic bacterium, *Erythrobacter* species OCh 114 (890) 127
Tamura, N. and Cheniae, G.
Photoactivation of the water-oxidizing complex in Photosystem II membranes depleted of Mn and extrinsic proteins. I. Biochemical and kinetic characterization (890) 179
Terada, H., see Shinohara, Y. (890) 387
Tommasino, M., Prezioso, G. and Palmieri, F.
Photoaffinity labeling of the mitochondrial phosphate carrier by 4-azido-2-nitrophenyl phosphate (890) 39

Unemoto, T., see Hayashi, M. (890) 47

Vallejos, R.H., see Lucero, H.A. (890) 77
Van Dorssen, R.J., Plijter, J.J., Dekker, J.P., Den Ouden, A., Amesz, J. and Van Gorkom, H.J.
Spectroscopic properties of chloroplast grana membranes and of the core of Photosystem II (890) 134
Van Gorkom, H.J., see Van Dorssen, R.J. (890) 134
Venturoli, G., see García, A.F. (890) 335
Vial, C., see Marcillat, O. (890) 233
Völker, M., Eckert, H.-J. and Renger, G.
Effects of trypsin and bivalent cations on P-680$^+$-reduction, fluorescence induction and oxygen evolution in Photosystem II membrane fragments from spinach (890) 66

Warden, J.T. and Csatorday, K.
On the mechanism of linolenic acid inhibition in Photosystem II (890) 215
Warden, J.T., see Csatorday, K. (890) 224
Webb, D., see Cox, G.B. (890) 195
Whitmarsh, J., see Hangarter, R.P. (890) 106

Yachandra, V.K., see Cole, J. (890) 395
Yang, F.D., see Gwak, S.H. (890) 319
Yoshida, Y., see Nishida, T. (890) 82
Youvan, D.C., see Prince, R.C. (890) 286
Yu, C.A., see Gwak, S.H. (890) 319
Yu, L., see Gwak, S.H. (890) 319

Zhou, Q., Robert, B. and Lutz, M.
Intergeneric structural variability of the primary donor of photosynthetic bacteria: resonance Raman spectroscopy of reaction centers from two *Rhodospirillum* and *Rhodobacter* species (890) 368
Zuber, H., see Bürgi, R. (890) 346